

CLAIMS

5 1. A method of reconstituting an animal embryo, the method comprising transferring the nucleus of a quiescent donor cell into a suitable recipient cell.

2. A method as claimed in claim 1, in which the animal is an ungulate species.

10 3. A method as claimed in claim 2, in which the animal is a cow or bull, pig, goat, sheep, camel or water buffalo.

15 *a* 4. A method as claimed in ~~any one of claims 1 to 3~~, in which the nucleus of the donor cell is genetically modified.

20 5. A method as claimed in claim 4, in which the donor cell is genetically modified prior to embryo reconstitution.

6. A method as claimed in claim 5, in which the recipient cell is an oocyte.

25 7. A method as claimed in claim 6, in which the oocyte is enucleate.

30 *a* 8. A method as claimed ⁱⁿ ~~in any one of claims 1 to 7~~, in which the donor cell is an adult somatic cell.

35 *a* 9. A method as claimed in ~~any one of claims 1 to 7~~, in which the donor cell is an embryonic somatic cell.

a 10. A method as claimed in ~~any one of claims 1 to 7~~, in which the donor cell is a foetal somatic cell.

11. A method for preparing an animal, the method comprising:

- (a) reconstituting an animal embryo as claimed in any preceding claim;
- (b) causing an animal to develop to term from the embryo; and
- (c) optionally, breeding from the animal so formed.

12. A method as claimed in claim 11, in which the animal embryo is further manipulated prior to full development of the embryo.

13. A method as claimed in claim 12, wherein more than one animal is derived from the embryo.

14. A reconstituted animal embryo prepared by transferring the nucleus of a quiescent donor cell into a suitable recipient cell.

15. A reconstituted embryo as claimed in claim 14, in which the donor cell is an adult somatic cell.

16. A reconstituted embryo as claimed in claim 14, in which the donor cell is an embryonic somatic cell.

17. A reconstituted embryo as claimed in claim 14, in which the donor cell is a foetal somatic cell.

18. An animal prepared by a method as claimed in ^{claim 11} ~~any one of claims 1 to 13.~~

19. An animal developed from a reconstituted animal embryo as claimed in ~~any one of claims 14 to 17.~~

add B'

add C47

add D1

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